

• YOUR
• SMART
• ENERGY



STORION T50/T100

COMMERCIAL &
INDUSTRIAL SERIES

POWER

50 / 100 KW

CAPACITY

34.2 ~ 387.1 kWh



Ups Ability

Off-grid Ability

Modular Design

Easy Installation and
Low Maintenance

24/7 Monitoring with
Local Interface



STORION T50/T100



Model	Storion-T50/T100	
System Specification		
Model	Storion-T50	Storion-T100
Nominal AC Power	50 kW	100 kW
Max. PV Input Power	100 kW	200 kW
Capacity Range	34.2 kWh~387.1 kWh (90%(On-Grid), 85%(Off-Grid))	
Battery Chemistry	LFP (LiFePO4)	
Application Environment	Indoor (Rack) / Outdoor (Container)	
Warranty	3 Year Product Warranty	

Inverter Technical Specification			
PV Input Voltage Range	700 ~ 900 V	Phase	3-phase 4 line
MPPT Number	1	Nominal AC Current	72 A 144A
Battery Voltage Range	250 ~ 520 V	Max.AC Power	55 kW 110 kW
Max. Charging/Discharging Current	150 A 300 A	Rated Frequency	50 / 60 Hz
Max. Charging/Discharging Power	50 kW 100 kW	Backup	UPS (With STS Module)
Rated Voltage	400 V	Dimension (W x D x H)	800 x 800 x 2160 mm
Grid Voltage Range	340 ~ 460 V	Weight	520 kg 750 kg
Power Factor Range	0.99 / -1 ~ 1		
Certification	IEC62477, EN 62109, IEC61000, IEC62477, EN 62109, IEC61000, VDE4105, EN50549, PEA, MEA, VDE0126, IEC62040+AS4777, NRS 097-2-1		

Battery Technical Specification			
Module Model	M48112-S	M38210-S	M38180-S
Module Weight	65 kg	62 kg	64 kg
Module Dimension (W x D x H)	450 x 580 x 165 mm**	326 x 560 x 222mm**	326 x 654 x 250 mm**
Max. Charging/Discharging Current	112 A	105 A	180 A
Module Capacity	5.7 kWh	8.1 kWh	6.912 kWh
Module Nominal Voltage	51.2 V	38.4 V	38.4 V
Cycle Life	80%EOL with ≥ 6000@1C 25°C	80%EOL with ≥ 6000@0.5C 25°C	80%EOL with ≥ 6000@1C 25°C
Operating Temperature Range	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*

High Voltage Control Box Technical Specification			
BMU Model	HV900112***	HV900105***	HV900180***
DC Voltage Range	288 ~ 518.4 V	288 ~ 506.88 V	288 ~ 506.88 V
Nominal Output Current	112 A	105 A	180 A
Battery Modules Connection	6-9 in series in one cluster	8-12 in series in one cluster	8-12 in series in one cluster
Clusters Connection	Max. 10 clusters in parallel	Max. 10 clusters in parallel	Max. 10 clusters in parallel

* Max. charge/discharge current derating will occur related to temperature and SOC.

** Including hangers and handles.

*** (TOP BMU required with more than one cluster)



Alpha ESS Co., Ltd.

+86 513 8060 6891
info@alpha-ess.com
www.alphaess.com
Jiuhua Road 888, Nantong
High-Tech Industrial
Development Zone, Nantong,
Jiangsu Province, China

Alpha ESS Suzhou Co., Ltd.

+86 512 6828 7609
info@alpha-ess.com
www.alphaess.com
Building 10-A, Canal Town Industrial
Park, 99 Taihu E Rd, Wuzhong District,
Suzhou, Jiangsu Province, China

Alpha ESS Europe GmbH

+49 610 3459 1601
europe@alpha-ess.de
www.alphaess.de
Paul-Ehrlich-Straße 1a,
Langen, Hessen D-63225
Germany

Alpha ESS Australia Pty. Ltd.

+61 02 9000 7676
Australia@alpha-ess.com
www.alphaess.com
8/15-21 Gibbes Street, Chatswood,
NSW 2067 Australia

Alpha ESS Italy S.r.l.

+39 339 462 4288
info@alpha-ess.it
www.alphaess.com
Via Don Minzoni, 17,
Calenzano Firenze 50041 Italy

Alpha ESS UK Ltd.

+44 145 354 5222
info@alpha-ess.com
Drake house, Long
street, Dursley, gl11
4hh UK

Alpha ESS International Pte. Ltd.

+65 6513 1125 / +65 6513 1126
Singapore@alpha-ess.com
2 Corporation Road #01-06A
Corporation Place 618494
Singapore

Alpha ESS USA, Inc.

+1 408 368 7828
usa@alpha-ess.com
Unit 5 2180 S Ivanhoe
St, Denver, CO 80222
USA

Alpha ESS Korea Co., Ltd.

info@alpha-ess.com
2F, 19-4, Nohyeong 11-gil,
Jeju-si, Jeju-do, Republic of
Korea